

User Manual

IP601

V1.1

Reversion Records

Version	Date	Author	Firmware Version	Applicability
V1.0	2012-08-13	Maylin	V2.0	
V1.1	2012-12-06	Maylin	V2.0	

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1 Introduction

1.1 Thanks for Purchasing IP601

Thank you for purchasing IP601. The IP601 which has one line is a full-featured VOIP (Voice over Internet protocol) phone that provides voice communication over IP network.

This phone functions not only much like a traditional phone, allowing to place and receive calls and enjoy other features that traditional phone has, but also it owns many data services which you could not expect from traditional telephone.

The IP601 provides Power over Ethernet(PoE) and one Ethernet port for connecting another device to the local area network.

This guide will help you easily use the various features and services available on your phone.

1.2 Package Contents

Your Package includes the following:

- ◆ One IP601(with PoE) IP Phone Unit
- ◆ Handset and handset cord
- ◆ One universal power adapter
- ◆ One Ethernet cable
- ◆ Wall-mounting screw pack

If the above device or accessory is damaged or lost, please contact with your reseller for replacement.

2 Installing

2.1 Assembling the Phone and Connecting to the Network

- 1) Plug one end of the coiled phone cord into the left of the phone base.
- 2) Plug the other end of the handset cord into the jack at the button of the handset.
- 3) If you are using an external power source, push the power cord into the power supply, and plug the power supply into the phone base unit. Then you will see the LED at the back of the phone turns red.

Note: Use only the power supply that came with the phone.

- 4) Plug the Ethernet cable into Internet port in the rear side of the base station. Plug the other end of the Ethernet cable into your already prepared network connection.

2.2 Mounting the Phone to the Wall

- 1) Complete the assembly introductions.
- 2) Attach two appropriate screws to the wall. Leave 1/4 distance from the wall. This allows you to slide the mounting brackets on to the screws. Push down slightly to lock the phone in place.

2.3 Turning on the phone

This section assumes that the correct connections have been made.

- 1) Check whether the Internet port is well connected.
- 2) Plug the AC power adapter into the electrical outlet.

Note: Use only the adapter that comes with the phone.

- 3) Then the LED at the back of the phone will turn red, wait about 30 seconds, then the LED turns green for a little while and turns light red again, hook and you can hear ring tone, that means you can use the phone normally.

Note: If the LED does not turn on or you can not hear ring tone, re-confirm installation and connections. If these are incorrect, try unplugging the phone and plugging it back in again. If you still don't have the upon features, then contact your Phone Administrator or service provider.

3 Get familiar with IP 601

3.1 Front Panel

Front Panel	NO.	Part Name	Description
	1	Handset top cradle	For the placement of handset(Receiver end).
		Hook switch	For hang-up and hang-off of handset.
		Cradle latch	To prevent the handset from dropping when it is wall-mounted.
		Handset bottom cradle	For the placement of handset(Transmitter end)
		Handset cord port	RJ-11 jack on the left side of the IP phone.
		Headset wire port	RJ-11 jack on the bottom of the handset.
		Headset	To mount mouthpiece and earpiece on the single handle.
	2	Multi-Functional Keys	These keys can be used as speed dial and shortcut keys.
	3	Numeric Keypad	Enters numeric digits for initiating a call or for entering configuration information.
	4	HOLD	The hold key is used to hold the current call, press it again to release the hold function.
	5	XFER	The XFER key is used to transfer calls, including attended transfer and unattended transfer.
	6	CONF	The CONF key is used to implement conference meeting calls.
	7	SPEAKER	Press it to use handsfree.

3.2 Rear Panel

Rear Panel	Part Name	Description
	DND Switch	The switch is used to turn on or off DND. Under the character DND is a dot. When the switch near the dot, DND is on, otherwise DND is off.

		LED indicator, details please refer to 3.3LED Introduction.
	DC 5V	Power port
	Internet	Connects to the Ethernet switch, router or Internet.

3.3 LED Introduction

LED Indicator	Color	Status	Description
	Light red	Solid	IP601 is power on and not registered.
	Green	Solid	IP601 is registered and line has no call.
	Red	Blinking	There is a new call incoming.
	Red	Solid	IP601 is registered and line is in active call.
	Red	Blinking in 10Hz	IP601 is firmware upgrading.

4 IVR (Interactive Voice Response)

4.1 Ways to Configuration

IP601 support three ways to configurate:

- 1) Use IVR
- 2) Use web browser (recommend way)
- 3) Use provision

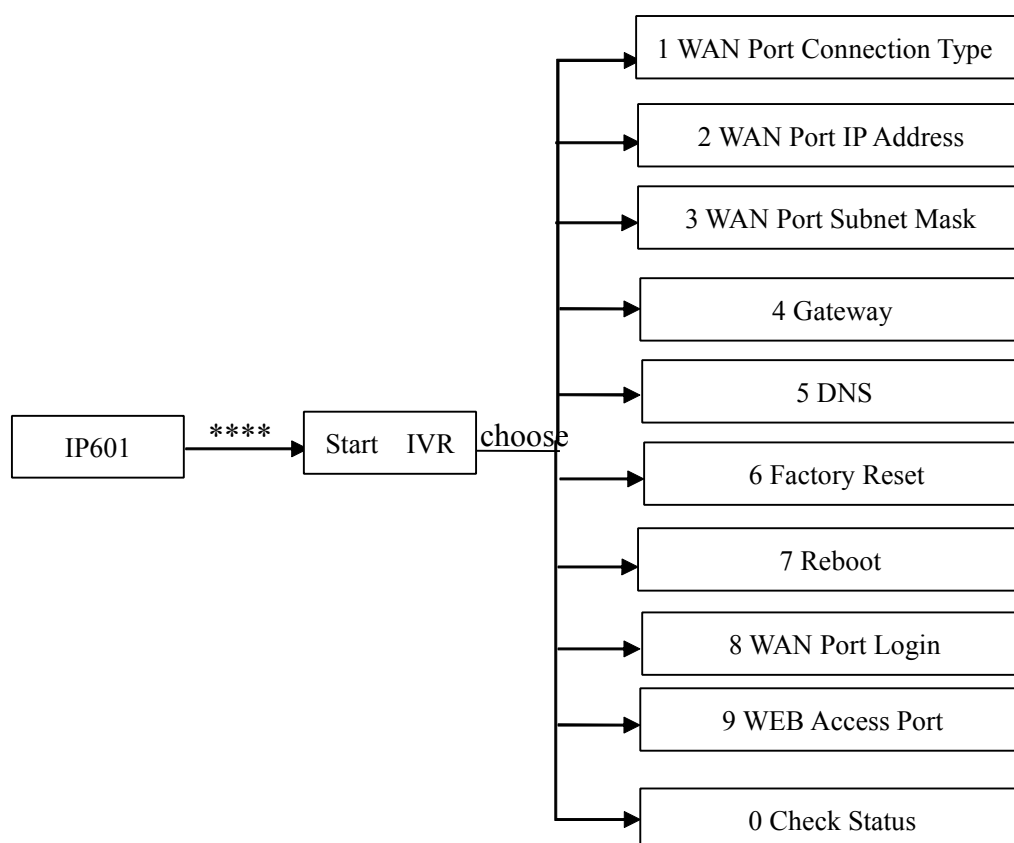
4.2 Start IVR

Customers can use the IVR function by referring to the following steps:

- 1) Pick up phone and press '****' to start IVR, then IP601 will report sound prompting '**Please enter your option, one WAN Port.....**';
- 2) Choose the operation code from 0 to 9, then IP601 will report the contents, details are in the following table;
- 3) Every time after successfully operation, IP601 will return to sound prompting '**Please enter your option, one WAN Port**';

4.3 IVR Descriptions

Below is the table that lists commands, and descriptions:



Operation Code	Contents
1	1) Pick up phone and press '****' to start IVR; 2) Choose '1', and IP601 reports the current WAN port connection type; 3) Prompt 'Please enter password', user need to input password with end char '#' if user want to configuration WAN port connection type; ◆ The password in IVR is same as the one of WEB login, user can use phone keypad to enter password directly, and the matching table is in 4.4 Notice. ◆ For example: WEB login password is 'admin', so password in IVR is 'admin' too, user input '23646' to access and then configuration WAN connection port. 4) Report 'operation successful' if password is right; 5) Choose the new WAN port connection type from 1.DHCP and 2.Static,end with '#'; 6) Report 'operation successful', this means user make the changes successfully, and then IP601 will return to sound prompting 'Please enter your option, one WAN Port'. ◆ Note: add '#'to assume after input password and select new WAN port connection type. ◆ If you want to quit by the wayside, press '*'.
2	1) Pick up phone and press '****' to start IVR; 2) Choose '2',and IP601 reports current WAN Port IP Address; 3) Input the new WAN port IP address and with the end char '#'; ◆ Using '*' to replace '.', user can input 192*168*20*168 to set the new IP address 192.168.20.168.

	◆ Press '#' key to indicate that you have finished. 4) Report 'operation successful' if user operation properly. Note: If you want to quit by the wayside, press '**'.
3	1) Pick up phone and press '****' to start IVR; 2) Choose '3', and IP601 reports WAN port subnet mask; 3) Input a new WAN port subnet mask and with the end char '#'; ◆ Using '*' to replace '.', user can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0 ◆ Press '#' key to indicate that you have finished. 4) Report 'operation successful' if user operation properly; Note: If you want quit by the wayside, press '**'.
4	1) Pick up phone and press '****' to start IVR; 2) Choose '4', and IP601 report current gateway; 3) Input the new gateway and with the end char '#'; ◆ Using '*' to replace '.', user can input 192*168*20*1 to set the new gateway 192.168.20.1. ◆ Press '#' key to indicate that you have finished. 4) Report 'operation successful' if user operation properly. Note: If you want quit by the wayside, press '**'.
5	Pick up phone and press '****' to start IVR; 2) Choose '5', and IP601 reports current DNS; 3) Input the new DNS and with the end char '#'; ◆ Using '*' to replace '.', user can input 192*168*20*1 to set the new DNS 192.168.20.1. ◆ Press '#' key to indicate that you have finished. 4) Report 'operation successful' if user operation properly. Note: If you want to quit by the wayside, press '**'.
6	Pick up phone and press '****' to start IVR; 2) Choose '6', and IP601 reports 'Factory reset'; 3) Prompt 'Please enter password', the method of inputting password is the same as operation 1; ◆ If you want to quit by the wayside, press '*' 4) Prompt 'operation successful' if password is right and then IP601 will be factory setting; 5) Press '7' reboot to make changes effective.
7	1) Pick up phone and press '****' to start IVR; 2) Choose '7', and IP601 reports 'Reboot'; 3) Prompt 'Please enter password', the method of inputting password is same as operation 1; 4) IP601 will reboot if password is right and operation is properly. ◆ If you want to quit by the way side, press '*'.
8	1) Pick up phone and press '****' to start IVR; 2) Choose '8', and IP601 reports 'WAN Port Login'; 3) Prompt 'Please enter password', the method of inputting password is same as

	operation 1; ◆ If you want to quit by the way side, press '*'. 4) Report ' Operation successful ' if user operation properly. 5) Prompt ' 1enable 2disable ', choose 1 or 2, and with confirm char '#'; 6) Report 'operation successful' if user operation properly.
9	1) Pick up phone and press '****' to start IVR; 2) Choose '9', and IP601 reports ' WEB Access Port '; 3) Prompt ' Please enter password ', the method of inputting password is same as operation 1; 4) Report ' operation successful ' if user operation properly; 5) Report the current WEB Access Port ; 6) Set the new WEB access port and with end char '#'; 7) Report ' operation successful ' if user operation properly.
0	1) Pick up phone and press '****' to start IVR; 2) Choose '0', and IP601 report current ' Firmware version '.

4.4 Notice

- ◆ In Voice Menu, press *(star) to return to up level menu.
- ◆ If any changes made in the IP assignment mode, please reboot the IP601 to take the settings into effect.
- ◆ When enter IP address or subnet mask, input '*' to represent '.' and add '#' to finish inputting, for example, to enter the IP address **192.168.1.11** by keypad, press these keys: **192*168*1*11#**.
- ◆ You can enter the password by phone keypad, the matching table between number and letters as follows:
 - ◆ To input: A,B,C,a,b,c-----press '2';
 - ◆ To input: D,E,F,d,e,f-----press '3';
 - ◆ To input: G,H,I,g,h,i-----press '4';
 - ◆ To input: J,K,L,j,k,l-----press '5';
 - ◆ To input: M,N,O,m,n,o-----press '6';
 - ◆ To input: P,Q,R,S,p,q,r,s-----press '7';
 - ◆ To input: T,U,V,t,u,v-----press '8';
 - ◆ To input: W,X,Y,Z,w,x,y,z-----press '9';
 - ◆ To input all other characters in the administration password-----press '0'.
- ◆ Press #(pound) key to indicate that you have finished entering the IP address or subnet mask or other settings.
- ◆ When assigning IP address in Static IP mode, customer must set IP address, subnet mask and default gateway. If in DHCP mode, please make sure that DHCP Server is available in your exiting broadband connection to which WAN port of IP601 is connected.

5 IP601 Webpage

5.1 Login to WEB

IP601 has an embedded Web server that will respond to HTTP get/post requests. User can use a Web browser like Microsoft's IE to login and then configure IP601.

5.1.1 URL Format

The WEB login URL format is: http://WAN IP Address, for example: if your WAN IP address is 192.168.20.199, you can just input this IP address, then you will jump to the login webpage of IP601, just as:



You can get the IP address through IVR.

5.1.2 About Password

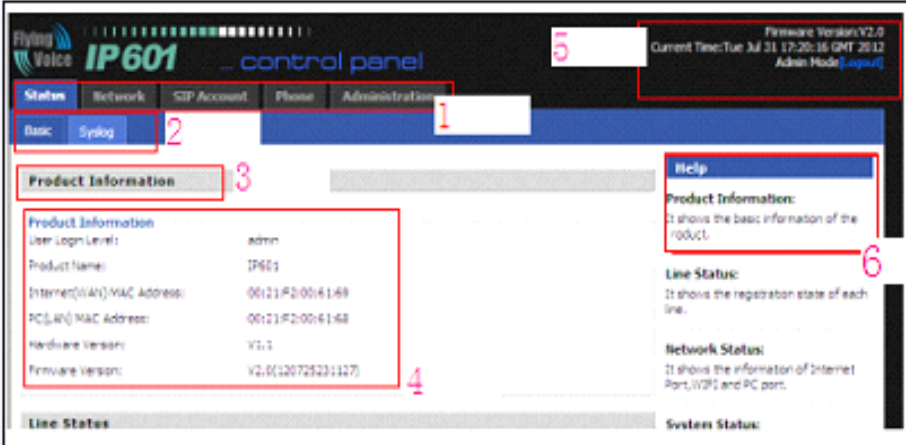
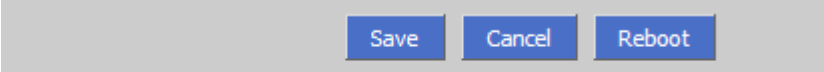
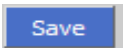
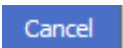
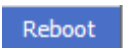
There are 2-level to access to IP601:administration level and user level, password of different levels are different.

User with administration level can browse and set all configuration parameters, while user with user level can set all configuration parameters except SIP line that some parameters can not be changed, such as server address and port.

Default user with administration level: the password is admin;

Default user with user level: the password is user.

5.2 WEB Interface Introduction

		
Serial Number	Name	Description
1	Navigation bar	Click navigation bar, many sub-navigation bar will appear in the place 2.
2	Sub-navigation bar	Click sub-navigation ba to enter configuration page.
3	Configuration title	The configuration title
4	Configuration bars	The configuration bars
5	Main information	Display the firmware version, DSP version,current time, and user can change login level (mode) to return to login page by press blue Switch button.
6	Help	Display the main information for configuration; user can get help from it directly.
		
Please REBOOT to make the changes effective!		
	Every time making some changes, user should press the button to confirm the changes. After pressing the button, the red Please REBOOT to make the changes effective! will appear to notice user to reboot.	
	To cancel the changes.	
	Press it to reboot IP601.	

6 Configuration from WEB

6.1 Status

User can view IP601 Basic and Syslog. It is the first page which user will see firstly after login to WEB.

6.1.1 Basic

User can see the Product Information, Line Status, Net Status, VPN Status, LAN status and System Status.

The screenshot shows the IP601 control panel web interface. At the top, there is a header with the 'Flying Voice IP601 ... control panel' logo. Below the header, there are navigation tabs: 'Status' (selected), 'Network', 'SIP Account', 'Phone', and 'Administration'. Under the 'Status' tab, there are sub-tabs: 'Basic' (selected) and 'Syslog'.

The main content area is divided into four sections:

- Product Information**: A table showing details about the device.

Product Information	
User Login Level:	admin
Product Name:	IP601
Internet(WAN) MAC Address:	00:21:F2:00:61:69
PC(LAN) MAC Address:	00:21:F2:00:61:68
Hardware Version:	V1.1
Firmware Version:	V2.0(201208070349)
- Line Status**: A table showing the status of the line.

Line Status	
Line 1 Status:	Registered
- Network Status**: A table showing network configuration and status.

Internet Port Status	
Connection Status:	Connected
Connection Type:	DHCP
IP Address:	192.168.20.163
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.20.1
Primary DNS:	192.168.20.1
Secondary DNS:	192.168.20.1
- System Status**: A table showing system information.

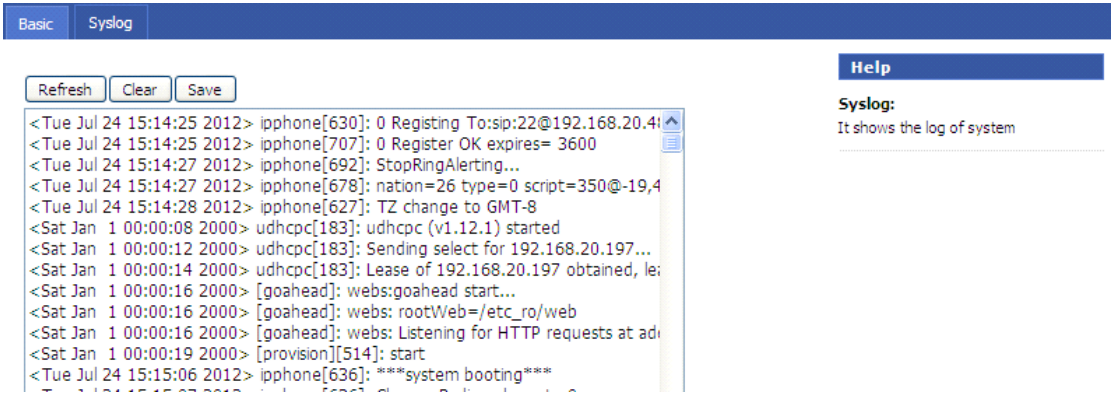
System Status	
Current Time:	Fri Aug 10 14:49:47 GMT 2012
Elapsed Time:	12 mins

At the bottom of the page, there is a 'Refresh' button.

6.1.2 Syslog

In this configuration interface, you can view Syslog, which records the IP601's important configuration information.

In this page, you can Refresh/Clear/Save your syslog by click the relative button.



6.2 Network

6.2.1 Basic

User can configure the parameters of Internet Port, MAC Clone, VPN, QoS and DDNS.

6.2.2 Internet Port(WAN)

1) Static:

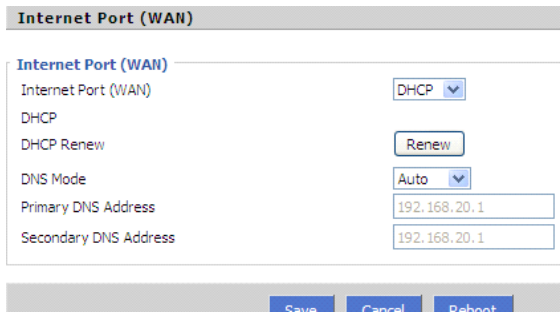
In static mode, user should fill in the values of IP Address,Subnet Mask,Default Gateway,Primary DNS and Secondary DNS got from your administration.

Webpage	Field Name	Description
Internet Port (WAN) Internet Port (WAN) Static Static IP Address 192.168.20.166 Subnet Mask 255.255.255.0 Default Gateway 192.169.20.1 DNS Mode Manual Primary DNS Address 192.168.20.1 Secondary DNS Address 192.168.20.1 Save Cancel Reboot	Internet port	Choose Static IP
	IP Address	The IP address of Internet port
	Subnet Mask	The subnet mask of Internet port
	Default Gateway	The default gateway of Internet port
	DNS Mode	No chosen option
	Primary DNS	The primary DNS of Internet port
	Secondary DNS	The second DNS of Internet port

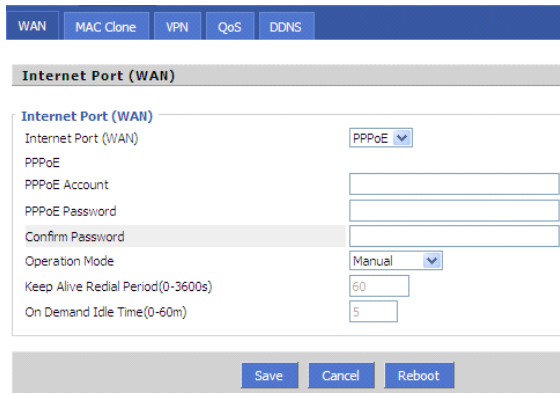
2) DHCP:

In DHCP mode, IP phone is a DHCP client.

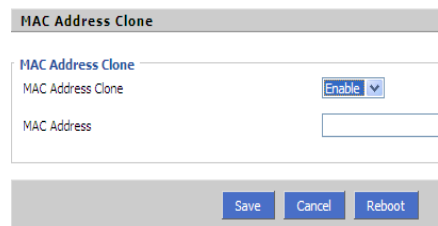
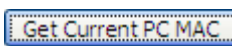
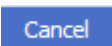
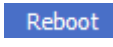
IP phone will get the IP Address, Subnet Mask and Default Gateway from the DHCP server.

Webpage	Field Name	Description
 The screenshot shows the 'Internet Port (WAN)' configuration page. It includes a dropdown for 'Internet Port (WAN)' set to 'DHCP', a 'Renew' button, a 'DNS Mode' dropdown set to 'Auto', and input fields for 'Primary DNS Address' and 'Secondary DNS Address', both containing '192.168.20.1'. At the bottom are 'Save', 'Cancel', and 'Reboot' buttons.	Internet Port	Choose DHCP
	DHCP Renew	Renew the phone's IP address
	DNS Mode	Choose DNS mode from Manual and Auto. ♦In Manual: user should set the primary DNS and secondary DNS manually. ♦In Auto: IP phone will get the primary DNS and secondary DNS from DHCP server automatically.
	Primary DNS address	Set the primary DNS address in manual-way.
	Secondary DNS address	Set the second DNS address in manual-way.

3) PPPoE:

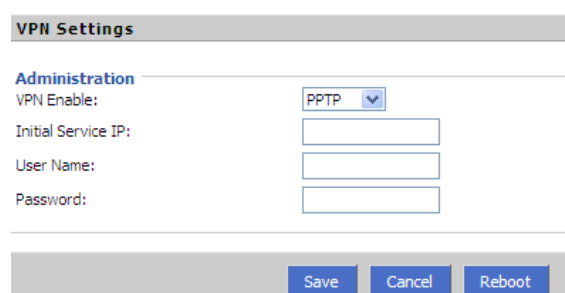
Webpage	Field Name	Description
 The screenshot shows the 'Internet Port (WAN)' configuration page with the 'WAN' tab selected. It includes a dropdown for 'Internet Port (WAN)' set to 'PPPoE', input fields for 'PPPoE Account', 'PPPoE Password', and 'Confirm Password', a 'Operation Mode' dropdown set to 'Manual', and input fields for 'Keep Alive Redial Period(0-3600s)' set to '60' and 'On Demand Idle Time(0-60m)' set to '5'. At the bottom are 'Save', 'Cancel', and 'Reboot' buttons.	Internet Port(WAN)	Choose PPPoE
	PPPoE Account	Fill in the PPPoE account which you get from Internet Service Provider.
	PPPoE Password	Fill in the PPPoE password which you get from Internet Service provider.
	Confirm Password	Fill in the PPPoE password again
	Operation mode	Choose Operation mode from Keep Alive, On Demand and Manual. ♦In Keep Alive mode, user need set the 'keep alive redial period' from 0 to 3600 seconds, the default value is 60 seconds; ♦In On Demand mode, user need set the 'on demand idle time' from 0 to 60 minutes, the default value is 5 minutes. ♦In Manual mode, the following two options are not for chosen.
	Keep Alive Redial Period(0-3600s)	Set the keep alive redial period in 'Keep Alive' mode.
	On Demand Idle Time(0-60m)	Set the on demand idle time in 'On Demand' mode.

6.2.3 MAC Clone

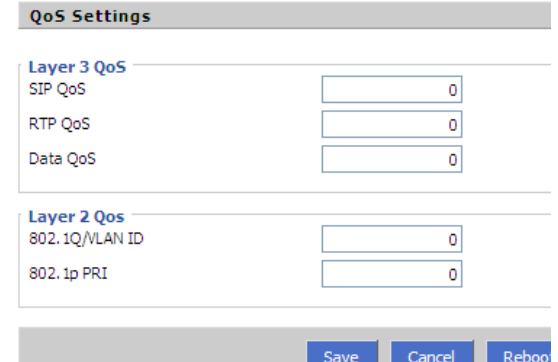
Webpage	Description
	MAC is the hardware address of network equipment. Sometimes network providers may bind network account with network equipment's MAC address. So you may not pass the provider's authentication when you use a new IP601. In this case, you can use MAC clone to copy your PC's MAC address to IP601's Internet port. MAC is an important parameter for network equipments, so you should make sure that the MAC is right, in order to prevent to make IP601 unusable. You can login in IP601's webpage via PC port if you are incautious to make it wrong. And then clone the right right MAC or resume the default settings.
	Enable MAC address clone; ① Press  button to get the PC's MAC address; ② Press  button to save your change; if you won't use MAC clone, press  button to cancel your change; ③ Press  to reboot IP601.

6.2.4 VPN

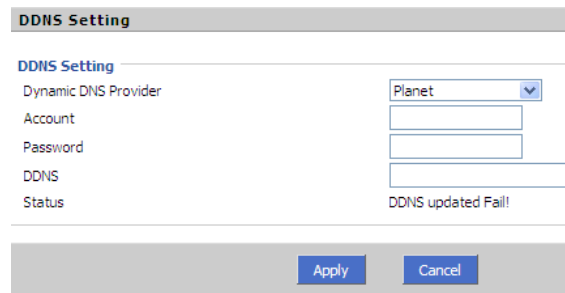
A Virtual Private Network(VPN) is the extension of a private network that encompasses links across shared or public networks like the Internet. In short, by VPN technology, you can send data between two computers across a shared or public network in manner that emulates the properties of a point-to-point private link.

Webpage	Field Name	Description
	VPN Enable:	If or not enable VPN. And user can choose the VPN mode from PPTP and L2TP.
	Initial Service IP:	VPN server IP address
	User Name:	The user name for authentication.
	Password:	Password for authentication.

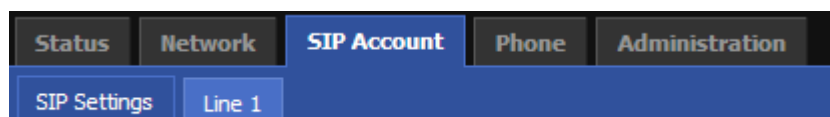
6.2.5 QoS

Webpage	Description
	Some ISP supply QoS services. The QoS can make the best of improving the quality of Voice application. You can get the settings from the ISP if they supply QoS services. Please connect with them if you need.

6.2.6 DDNS

Webpage	Field Name	Description
	Dynamic DNS Provider	Enable DDNS and choose the provider for it.
	Account	Fill in the account you get from your provider.
	Password	Fill in the password you get from your provider.
	DDNS	Fill in your DDNS domain or IP address .
	Status	Reflect if the DDNS upgrade successfully or not.
	Apply/Cancel	Apply your changes or cancel your changes.

6.3 SIP Account



6.3.1 SIP Settings

1) **SIP Settings Parameters:** the following picture describes the parameters briefly.

SIP Parameters**SIP Parameters**

SIP T1:	500	MS	Max Forward:	70
SIP Reg User Agent Name:			Max Auth:	2
Mark All AVT Packets:	Enable		RFC 2543 Call Hold:	Enable
SRTP:	Disable		SRTP Prefer Encryption:	AES_CM
Service Type:	Common			

2) NAT Traversal**NAT Traversal****NAT Traversal**

NAT Traversal:	Disable	STUN Server Address:	
NAT Refresh Interval(sec):	60	STUN Server Port:	3478

Enable NAT traversal in NAT Traversal: , IP601 support STUN traversal, choose 'STUN' if you want traverse NAT/Firewall. And fill in the STUN Server IP address in STUN Server Address: , set the value of interval of refreshing NAT in NAT Refresh Interval(sec): , the default value is 60 seconds and set the value of STUN server port in STUN Server Port: , the default value is 3478.

6.3.2 Line 1

In this webpage, users can configure the information about SIP account 1, including the following 4 parts: Basic Setup, Audio Configuration, Supplementary Service Subscription and Advanced. Following are the descriptions about these.

1) Basic Setup

Set the basic information provided by your VOIP Service Provider, such as Phone Number, Account, password, SIP proxy and so on.

Basic Setup

Line Enable: Peer To Peer:

Proxy and Registration

Proxy Server: Proxy Port:
 Outbound Server: Outbound Port:
 Backup Outbound Server: Backup Outbound Port:

Subscriber Information

Display Name: Phone Number:
 Account: Password:

Field Name	Description
Line Enable	If or not enable Line 1
Peer To Peer	If or not enable Peer To Peer ♦ If enable, line 1 will not send register request to SIP server; ♦ In System Status, line 1 status is Registered; ♦ Line 1 can make calls out, but others can not call line 1.
Proxy Server	Fill in the IP address of your SIP server.
Outbound Server	Outbound Proxy IP or domain name.
Backup Outbound Server	Backup outbound server IP or domain name.
Proxy port	The value of Proxy Port, the default value is 5060.
Outbound Port	The value of Outbound Port, the default value is 5060.
Backup Outbound Port	The value of Backup Outbound Port, the default value is 5060.
Display Name	The number will display in callee.
Phone Number	The number provided by SIP Proxy.
Account	SIP Account provided by SIP Proxy.
Password	SIP password provided by SIP Proxy.

2) Audio Configuration

Select the audio Codec you want to use.

Audio Configuration**Codec Setup**

Audio Codec Type 1: Audio Codec Type 2:
 Audio Codec Type 3: Audio Codec Type 4:
 Audio Codec Type 5: G.723 Coding Speed:
 Packet Cycle(ms): Silence Supp:
 Echo Cancel:

Field Name	Description
Audio Codec Type 1	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
Audio Codec Type 2	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
Audio Codec Type 3	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
Audio Codec Type 4	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
Audio Codec Type 5	Choose the audio codec type from G.711A,G.711U,G.722,G.729 and G.723
G.723 Coding Speed	Choose the speed of G.723 from 5.3kbps and 6.3kbps.
Packet Cycle(ms)	The RTP packet cycle time, the default value is 20ms.
Silence Supp	If or not enable silence.
Echo Cancel	If or not enable echo cancel.

3) Supplementary Service Subscription

Supplementary Service Subscription

Supplementary Services

Call Waiting: Hot Line:
 MWI Enable: Voice Mailbox Numbers:

Field Name	Description
Call Waiting	If or not enable call waiting
Hot Line	Fill in the hotline number. If you have set it ,when you pick your phone up, IP601 will dial out the hotline number automatically.
MWI Enable	If or not enable MWI(message waiting indicate), if you want to use mailbox, please enable it.
Voice Mailbox Numbers	Fill in the mailbox's feature code provided by your server, for example, in Elatix the code is *97 .

4) Advanced

Advanced

Advanced Setup

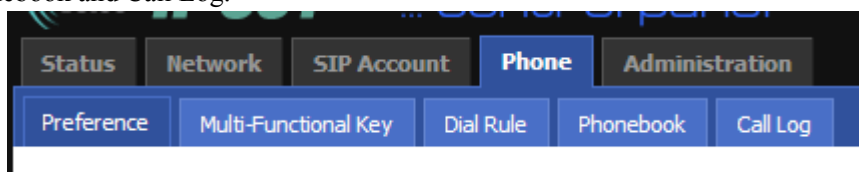
Domain Name Type: Carry Port Information:
 Signal Port: DTMF Type:
 RFC2833 Payload(>=96): Register Refresh Interval(s):
 RTP Port: Cancel Message Enable:
 (=0 auto select)
 Session Refresh Time(sec): Refresher:
 Prack Enable: SIP OPTIONS Enable:
 Keep-alive Interval(10-60 s): Anonymous Call:
 Anonymous Call Block: Proxy DNS Type:
 Use OB Proxy In Dialog VPN:

Field Name	Description
Domain Name Type	If or not use domain name in the SIP URI.
Carry Port Information	If or not carry Port information in the SIP URI.

Signal Port	The local port of SIP protocol, default value is 5060.
DTMF Type	Choose the DTMF type from In-band,RFC2833 and SIP Info.
RFC2833 Payload(>=96)	User can use the default setting.
Register Refresh Intervals(sec)	The interval between two normal Register messages. You can use the default setting.
RTP Port	Set the port to send RTP. IP phone will select one idle port for RTP if you set '0', otherwise use the value user set.
Cancel Message Enable	When you set enable, an unregistered message will be sent before registration, while you set disable, unregistered message will not be sent before registration. You should set the option for different Proxy.
Session Refresh Time(sec)	The interval time between two sessions. You can use the default value.
Refresher	Choose refresher from UAC and UAS.
Prack Enable	If or not enable Prack.
SIP OPTIONS Enable	If this option is enabled, IP601 will sent SIP-PING to server periodically instead of sending hello packet. The send interval is Keep-alive interval.
Keep-alive Interval(10-60s)	The interval that IP601 will send an empty packet to Proxy.
Anonymous Call	If or not enable anonymous call.
Anonymous Call Block	If or not enable anonymous call block.
Proxy DNS Type	Set the proxy DNS type from A Type and DNS SRV.
Use OB Proxy In Dialog	If or not use OB proxy in dialog.
VPN	If or not enable VPN.

6.4 Phone

In this webpage, user can configure IP601's preference, Multi-Functional Key, Dial Rule, Phonebook and Call Log.



6.4.1 Preference

1) Preference

Preference**Volume Settings**

Handset Input Gain:

Handset Volume:

Ringer Volume:

Speakerphone Input Gain:

Speaker Volume:

Speakerphone Mic Boost:

Field Name	Description
Handset Input Gain	Adjust the handset input gain from 0 to 7.
Speakerphone Input Gain	Adjust the speakerphone input gain from 0 to 7.
Handset Volume	Adjust the output gain from 0 to 7.
Speaker Volume	Adjust the speaker volume from 0 to 7.
Ringer Volume	Adjust the ringer volume from 0 to 7.
Speakerphone Mic Boost	If or not enable speakerphone mic boost.

2) Regional**Regional**

Tone Type:

Dial Tone:

Busy Tone:

Off Hook Warning Tone:

Ring Back Tone:

Call Waiting Tone:

Min Jitter Delay(ms): Max Jitter Delay(ms):

Ringing Time(Sec):

Field Name	Description	Default
Tone Type	Choose tone type from Custom, China, Us, India and so on.	Custom
Dial Tone	Played when prompting the user to enter a phone number.	350@-19,440@-19;30(*0/1+2)
Busy Tone	Played when a IP601 is received for an outbound call.	480@-19,620@-19;30(.5/.5/1+2)
Off Hook Waiting Tone	Played when the subscriber does not place the handset on the cradle properly.	480@-19,620@-19;*(.25/.25/1+2)
Ring Back Tone	Played for an outbound call when the far end is ringing.	440@-19,480@-19;*(2/4/1+2)
Call Waiting Tone	Special dial done played when call waiting is activated.	440@-19;*(.3/10/1)
Min Jitter Delay(ms)	The Min value of IP601's jitter delay,IP601's jitter delay is an adaptive jitter mechanism.	0
Max Jitter Delay(ms)	The Max value of IP601's jitter delay, IP601's jitter is an adaptive jitter mechanism.	80
Ringing Time(sec)	How long IP601 will ring.	60

3) Call Forward

Features

All Forward: 
 No Answer Forward: 

Busy Forward: 

Call Forward

All Forward:
 No Answer Forward:

Busy Forward:
 No Answer Timeout:

Feature Code

Cfwd All On Code:
 Cfwd Busy On Code:
 Cfwd No Ans On Code:
 DND On Code:

Cfwd All Off Code:
 Cfwd Busy Off Code:
 Cfwd No Ans Off Code:
 DND Off Code:

Webpage/Field Name		Description
Features	All Forward	If or not enable all forward.
	Busy Forward	If or not enable busy forward.
	No Answer Forward	If or not enable no answer forward.
Call Forward	All Forward	Set the target phone number for all forward.
	Busy Forward	Set the target phone number for busy forward.
	No Answer Forward	Set the target phone number for no answer forward.
	No Answer Timeout	The seconds to delay forwarding calls, if there is no answer at your phone.
Feature Code	Cfwd All On Code	The feature code of enabling all forward provided by your SIP provider.
	Cfwd All Off Code	The feature code of disabling all forward provided by your SIP provider.
	Cfwd Busy On Code	The feature code of enabling busy forward provided by your SIP provider.
	Cfwd Busy Off Code	The feature code of disabling busy forward provided by your SIP provider.
	Cfwd No Ans On Code	The feature code of enabling no answer forward provided by your SIP provider.
	Cfwd No Ans Off Code	The feature code of disabling no answer forward provided by your SIP provider.
	DND On Code	The feature code of enabling DND.
	DND Off Code	The feature code of disabling DND.

4) Miscellaneous

Miscellaneous

Auto Answer:	Disable	Auto Answer by CallINFO:	Disable
Dial Time Out:	5	Call Immediately Key:	#
ICMP Ping:	Disable	Preferred Audio Device:	Handsfree
Auto Hookon Mode:	Enable		

Field Name	Description
Auto Answer	If or not enable auto answer. If enable, IP601 will automatically answer all incoming calls immediately.
Auto Answer by CallINFO	If or not enable auto answer in CallINFO way.
Dial Time Out	How long IP601 will sound dial out tone when IP601 dial numbers.
Call Immediately Key	Choose call immediately key from * or #.
ICMP Ping	If or not enable ICMP Ping. If enable this option, IP601 will ping the SIP Server every interval time, otherwise, it will send 'hello' empty packet to the SIP Sever.
Preferred Audio Device	Choose preferred audio device from handsfree and headset.
Auto Hook on Mode	If or not enable auto hook on mode. If enable, IP601 will automatically hook on when the other side speaker end the call.

6.4.2 Multi-Functional Key

IP601 have 20 multi-functional keys, these keys can be used for making speed dial and change the value of volume.

- ① Choose one EXP Key from key 1...20;
- ② Choose one function type from speed dial and shortcut keys;
- ③ Set the other corresponding parameters;
- ④ Press Save button to save changes, press cancel button to cancel changes;
- ⑤ Reboot IP601.

Blowing is the webpage and setting example:

Status	Network	SIP Account	Phone	Administration
Preference	Multi-Functional Key	Dial Rule	Phonebook	Call Log

Multi-Functional Key

Current Key Board

Key	Type	Mode	Line	Expansion
Exp Key1	Speed Dial		Line1	511
Exp Key2	Speed Dial		Line1	515
Exp Key3	Speed Dial		Auto	601
Exp Key4	Shortcut Keys	Volume+		
Exp Key5	Shortcut Keys	Volume-		
Exp Key6	Disable			

1) Add Speed Dial

- ① Choose one EXP Key to configure;
- ② Select Speed Dial from the drop down list;
- ③ Choose the Line from auto(the first line registered) and line 1;
- ④ Fill in the phone number in Expansion;
- ⑤ Press Save to save changes and press Reboot button to make changes effective.

If set properly, press the corresponding key to make call immediately.

2) Add Shortcut Keys

- ① Choose one EXP Key to configure;
- ② Select Shortcut Keys from the drop down list;
- ③ Choose the Mode from Volume+ and Volume-;
- ④ Press Save button to submit changes and press Reboot button to make changes effective.

If set properly, press the corresponding key to turn up or turn down the value.

6.4.3 Dial Rule**1) Parameters and Settings**

Field Name	Description
Dial Plan	If or not enable dial plan.
Line	Choose the call mode from line1. Fill in the sequence used to match input number.
Digit Map	The syntactic, please refer to the following Dial Plan Syntactic.
Action	Choose the dial plan mode from Deny and Dial out. Deny means IP601 reject the matched number, while dial out means IP601 allow dial out the matched number.
Move Up	Press it to move up.
Move Down	Press it to move down..

2) Add Dial Plan

- ① Enable Dial Plan;
- ② Click Add button, and the configuration table will be like the nearest upon picture;
- ③ Fill in the value of parameters;
- ④ Press OK button to end configuration;

⑤ Press Save to submit the changes and press Reboot button to make the changes effective.

The following picture is an example of the use of dial plan. You can set your IP phone like this to check if its dial plan function well.

If set properly, take No.1 in the following picture for example, you dial #56#, the IP phone's output will be 23%5623%, since IP601 don't have LCD, you can use **Hammer or Wireshark** to check .

Dial Plan

General
Dial Plan: Enable

No.	Line	Digit Map	Action	Move Up	Move Down	☐
1	Line1	<#:23%>xx<#:23%>	Dial Out	▲	▼	☐
2	Line1	<:010>#123#2<#:23>2	Dial Out	▲	▼	☐
3	Line1	<5,:><:241333>8101	Dial Out	▲	▼	☐
4	Line1	<[4-5]:>22x<:333>	Dial Out	▲	▼	☐
5	Line1	<9,8,:>711	Dial Out	▲	▼	☐
6	Line1	<[2-3]:>5>622.	Dial Out	▲	▼	☐
7	Line1	7,6,5,4.<:001>	Dial Out	▲	▼	☐
8	Line1	333.<:8989>	Dial Out	▲	▼	☐
9	Line1	34x.<:75>	Dial Out	▲	▼	☐
10	Line1	*#06#	Dial Out	▲	▼	☐

Edit
Add
Delete

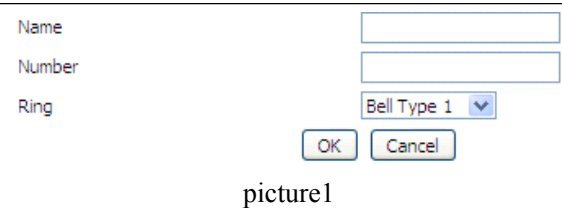
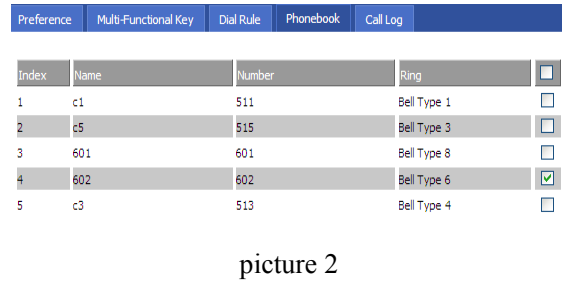
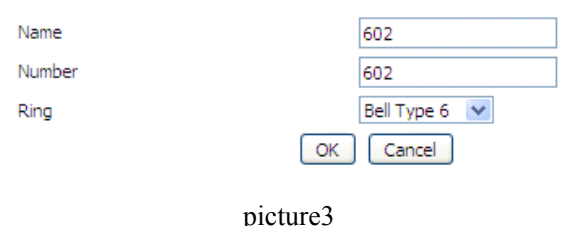
3) Dial Plan Syntactic

No.	String	Description
1	0 1 2 3 4 5 6 7 8 9 * #	Legal numbers
2	x	Lowercase letter x stands for on legal character.
3	[sequence]	To match one character from one sequence. For example: ◆ [0-9]: match one digit from 0 to 9; ◆ [23-5*]: match one character from 2 or 3 or 4 or 5 or *.
4	x.	Match to x, xx, xxx and so on. For example: '01.'can match '0', '01', '011',.....'0111111....'.
5	<diald:substituted>	Replace diald with substituted. For example: <#:23%>xx<#:23%>, the input is #56#, the output should be 23%5623%.
6	x,y	Make outside dial tone after dialing 'x', stop until dialing 'y'.

		For example<5,:><:241333>8101, the input is 58101 and the output will be 2413338101. What more, IP601 will make out line dial tone after dialing '5', stop until dialing character '8'.
7	T	Set the delayed time. For example: '<9:111>T2' means IP601 will dial out the matched number '111' after 2 seconds ignoring the dial time.

6.4.4 Phonebook

1) Phonebook

Webpage	Field Name	Description
 picture1	Name	Input the name.
	Number	Input the phone number.
	Ring	Choose different ring .
	OK/Cancel	Submit or cancel your change.
 picture 2	Steps: Add one phonebook: ① Click Add button, and the configuration table will be like picture1; ② Fill in the value of parameters; ③ Press OK button to submit your change or press cancel button to cancel your change, then press reboot button to make your change effective. Edit one phonebook: ① Choose one phone book; ② Click Edit button, and the configuration table like picture3 will appear; ③ Change the value of parameters; ④ Press OK button to end configuration; ⑤ Press Save button to save your change and reboot the phone.	
 picture3		

Index	Name	Number	Ring	
1	c1	511	Bell Type 1	☐
2	c5	515	Bell Type 3	☐
3	601	601	Bell Type 8	☐
4	602	602	Bell Type 6	☒
5	c3	513	Bell Type 4	☐

Picture4

Blacklist			
Index	Name	Number	
1	602	602	☐

Picture5

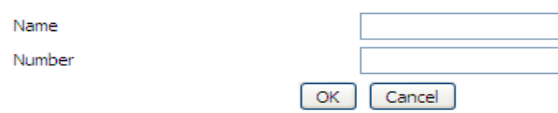
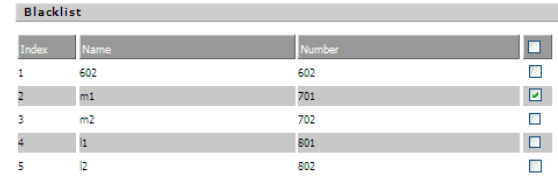
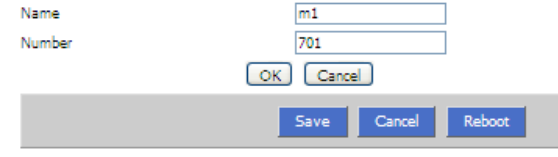
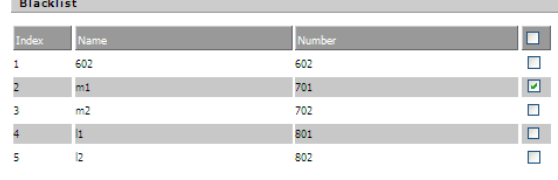
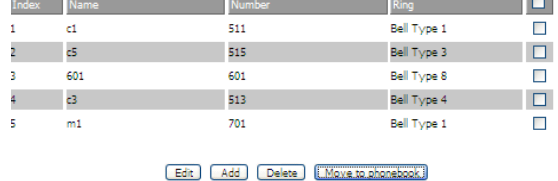
Delete one phonebook:

- ① Choose one phonebook;
- ② Click Delete button to delete the phone book;
- ③ Press Save button to submit your change and reboot the phone to make your change effective.

Move one phonebook to blacklist:

- ① Choose one phonebook;
- ② Click Move to Blacklist button, then number you choose will be deleted from the phone book list and be moved to blacklist.
- ③ Press Save button to submit your change and press reboot to make your change effective.

2) Blacklist

Webpage	Field Name	Description
 picture1	Name	Input the name.
	Number	Input the number.
 picture2	Steps:	
Add one Blacklist:		
① Click Add button, then the configuration table like picture1 will appear; ② Fill in the value of parameters; ③ Press OK button to end configuration; ④ Press save button to submit change and reboot IP601 to make your change effective.		
 picture3	Edit one Blacklist:	
① Choose one blacklist; ② Click Edit button, and the configuration table like picture3 will appear; ③ Change the value of parameters; ④ Press OK button to end edit and press save to submit your change and reboot IP601.		
 picture4	Delete one Blacklist:	
① Choose one blacklist; ② Click Delete button to delete the blacklist; ③ Press Save button to submit your change and reboot the phone to make your change effective.		
 picture5	Move one blacklist to phonebook:	
① Choose one blacklist; ② Click move to phonebook button to move the blacklist to the phonebook.		

③ Press Save button to submit your change and reboot the phone to make your change effective.

6.4.5 Call Log

To view the call log information such as redial list(incoming calls), answered calls and missed calls.

1) Redial List

Redial List				
Index	Number	Start Time	Duration	☐
1	511	08/02 13:56	00:00:01	☐
2	511	08/02 13:57	00:00:04	☐
3	511	08/02 14:02	00:01:48	☐
4	515	08/02 14:11	00:00:08	☐
5	516	08/02 14:13	00:00:01	☐
6	515	08/02 14:25	00:00:02	☐
7	515	08/02 16:58	00:00:03	☐
8	511	08/02 16:58	00:00:02	☐
9	511	08/02 16:58	00:00:02	☐
10	511	08/02 16:59	00:00:02	☐
11	515	08/02 17:07	00:00:01	☐

2) Answered Calls

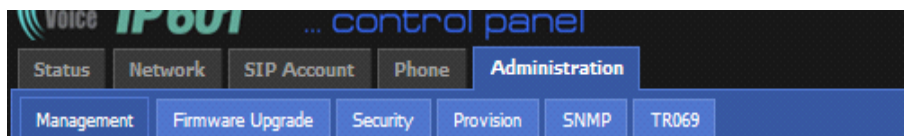
Answered Calls				
Index	Number	Start Time	Duration	☐
1	512	01/01 00:00	00:00:02	☐
2	512	01/01 00:01	00:00:05	☐
3	602	01/01 00:02	00:00:02	☐
4	513	01/01 00:04	00:00:01	☐
5	602	01/01 00:05	00:00:02	☐

3) Missed Calls

Missed Calls				
Index	Number	Start Time	Duration	☐
1	6016	01/01 00:03	00:00:02	☐
2	6016	01/01 00:01	00:00:01	☐
3	515	01/01 00:35	00:00:00	☐
4	515	01/01 00:35	00:00:02	☐

6.5 Administration

User can manage IP601 in these six webpage; you can configurate the Time/Date, password, web access, system log and so on.



6.5.1 Management

In this page, you can configure the value of Time/Date, password, Factory Defaults and so on.

1) Save File Config File Upload&&Download

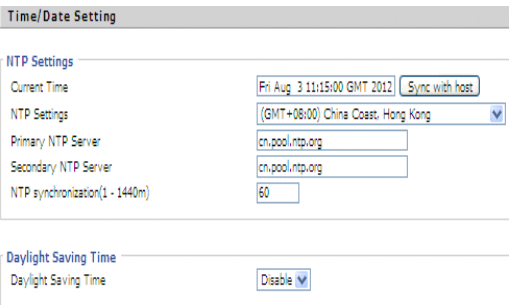
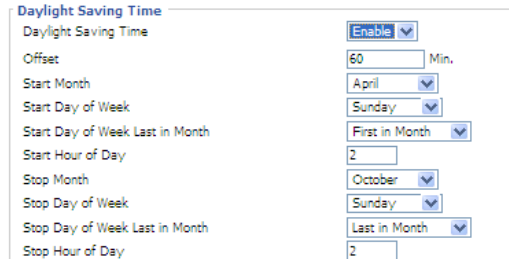
Webpage	Description
	User can upload and download configuration file in the webpage. ♦Upload: firstly press Browse... and choose your file in your computer, when the blank Local File is filled, press Upload and begin to upload the configuration file. ♦Download: firstly press Download and choose where to put the configuration file.

2) Administrator Settings

Webpage	Description
	User can change IP601's password, language and Web Access in this webpage. Password Reset: - Choose your type from Normal User and Admin User in User Type ; - Set your user name in New User Name ; - Set your new password in New Password ; - Fill in your new password again in Confirm Password . Language: Choose your language from English, Russian, Finnish and Spanish. Web Access: Remote Web Login : if or not enable user login in the webpage via Internet port. If enable, user can access to WEB to administration. Web Port : Set the port which is used to login WEB via Internet Port and PC port, the default is 80, if you enable this,

	you must add :80 in the URL. ③ Web Idle Timeout((0 - 60m)) : Set the Web Idle timeout time. The webpage can be logged out after Web Idle Timeout without any operation.
--	--

3) Time/Date Setting

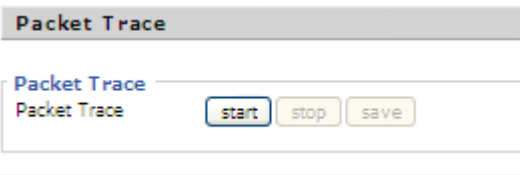
Webpage	Field Name	Description
 picture1	Current Time	Display the current time.
	NTP Settings	Choose NTP
	Primary NTP Sever	Fill in the primary NTP server IP address or Domain name.
	Secondary NTP Server	Fill in the secondary NTP sever IP address or Domain name.
	NTP synchronization(1-1440m)	The synchronization period with NTP, fill in the blank from 1 to 1440 minute, the default value is 60 minutes.
	Daylight Saving Time	If or not enable Daylight Saving Time.
 picture2	Steps: ① Enable Daylight Saving Time; ② Set value of offset, just like picture2; ③ Set Starting Month/ Week/Day/Hour in Start Month/Start Day of Week Last in Month/Start Hour of Day, analogously, set stop Month/Week/Day/Hour in Stop Month/Stop Day of Week Last in Month/Stop Day of Week/Stop Hour of Day, just like in picture2. ④ Press Save button to save your changes and press Reboot button to activate the changes.	

4) System Log Setting

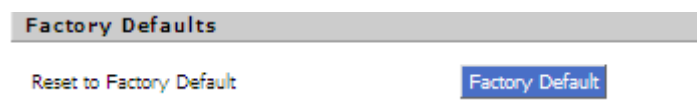
Webpage	Field Name	Description
 picture1	Syslog Enable	If or not enable system log.
	Syslog level	Choose log level from Info and Debug. Debug has priority to Info, the higher priority, the more information in syslog.
	IP601 support local and remote Syslog.	
	In local: ① Disable Remote Syslog, and choose one system log level, just like in picture1. ② Press Save button to save and press Reboot button to activate changes. ③ User can view syslog in Status/Syslog webpage.	
	In remote:	
 picture2		

	① Enable Remote Syslog, and fill in Remote Syslog Server IP address or domain name; ② Choose one kind of Log Level; ③ Press Save button to submit your changes and press Reboot button to activate the changes. ④ User can view syslog in remote server, and he/she can view the syslog in Status/Syslog webpage,too.
--	--

5) Packet Trace

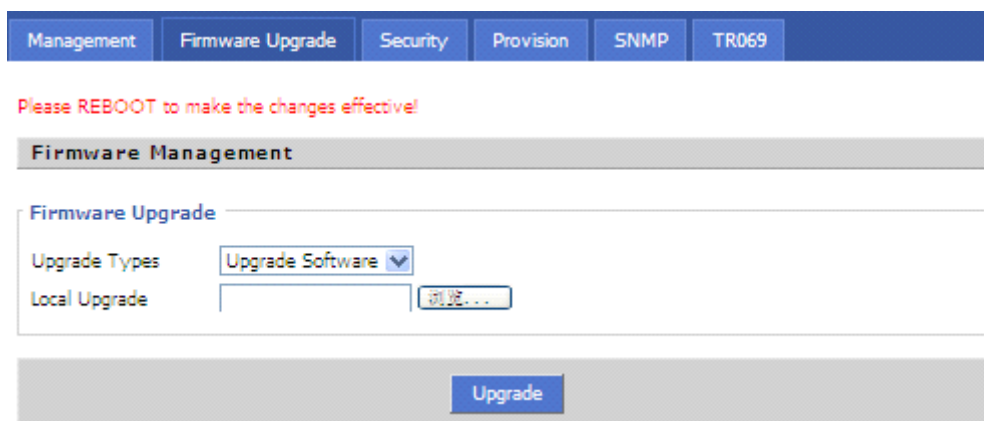
Webpage	Description
	Packet Trace is used to crash the data packet sent by users. Click start button to start, and refresh the webpage until it stops, click save button to save the packet you got. Please refer to Packet Trace_User_Manual if you want more details.

6) Factory Defaults



Press Reset Factory Defaults button to make IP601 default.

6.5.2 Firmware Upgrade



Steps :

- ① Set Upgrade Types to be Upgrade Software;
- ② Press **Local Upgrade** to browser the upgrade file;
- ③ Press **Upgrade** button to start upgrading;
- ④ Login web and then check the firmware whether well upgraded by viewing the firmware version in **Status/Basic** webpage.

6.5.3 Security

Management

Firmware Upgrade

Security

Provision

SNMP

TR069

Please REBOOT to make the changes effective!

Certificate Management

TR069

	Issued To	Issued By	Expiration
CA Certificate			
Client Certificate			
Private Key			

Provision

	Issued To	Issued By	Expiration
CA Certificate			
Client Certificate			
Private Key			

Certificate Update

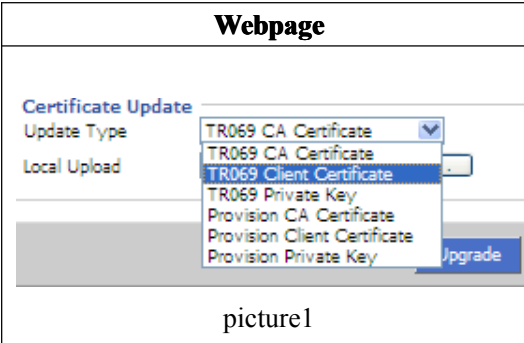
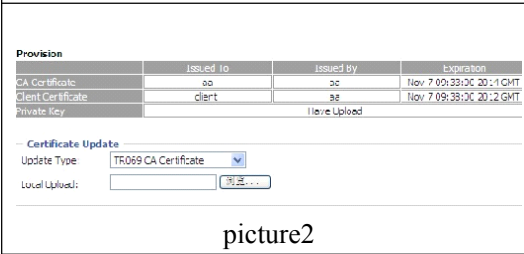
Update Type

TR069 CA Certificate

Local Upload

Choose...

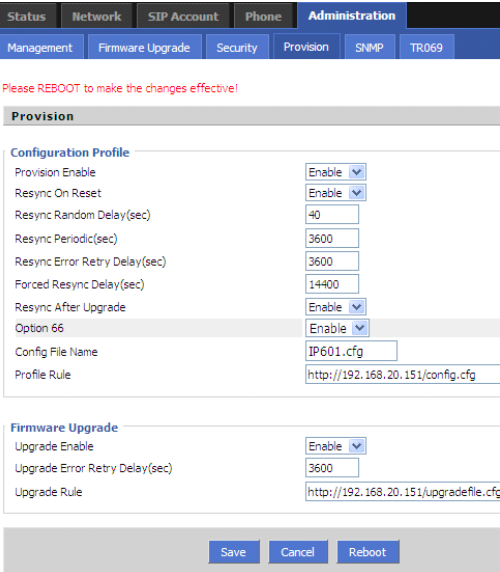
Upgrade

Webpage	Field Name	Description
 picture1	TR069 CA Certificate	The CA certificate file of TR069.
	TR069 Client Certificate	The Client certificate file of TR069.
	TR069 Private Key	The Private Key file of TR069.
	Provision CA Certificate	The CA certificate file of provision.
	Provision Client Certificate	The Client Certificate file of provision.
	Provision Private Key	The Private Key file of provision.
 picture2	User can upload cert files for TR069 and Provision as follows: ① Choose one File Type from Update Type , like picture1; ② Press Choose... to browser file; ③ Press Upgrade to start upgrading. Picture2 is the webpage which all provision files have been well loaded.	

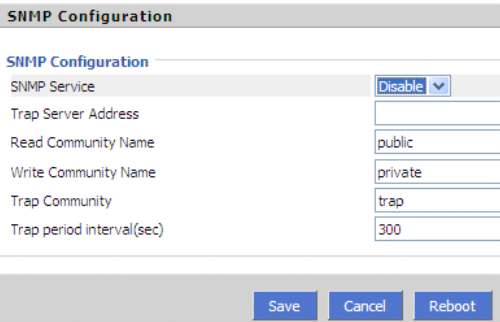
6.5.4 Provision

- 1) Provisioning allow IP601 to realize auto-upgrading and auto-configuring.
- 2) IP601 supports 3 ways to provision: TFTP, HTTP and HTTPS.
 - ◆ Before testing or using TFTP, user should have TFTP Server and upgrading file and configuration file.
 - ◆ Before testing or using HTTP, user should have HTTP server and upgrading file and configuration file.
 - ◆ Before testing and using HTTPS, user should have HTTPS Server and upgrading file and configuration file. What's more, user should have CA Certificate(should be the same as HTTPS Server's) and Client Certificate file and Private Key file.
- 3) User can uploading CA Certificate file and Client Certificate file and Private Key file in Equipment **Management/Cert Manage** page.

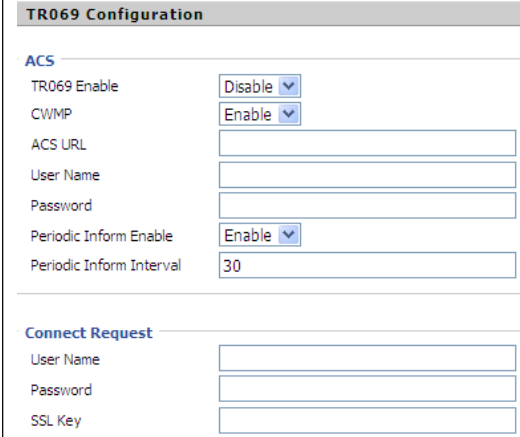
4) Details please refer to document Provision_User_Manual_en_v1.4.doc.

Webpage	Field Name	Description
	Provision Enable	If or not enable provision.
	Resync On Reset	If or not enable resync
	Resync Random Delay(sec)	Set the maximum delay for request the synchronization file.
	Resync Period(sec)	Set the period time for resync,default is 3600s.
	Resync Error Retry Delay(sec)	If the last resync was failure, IP601 will retry resync after the 'Resync Error Retry Delay' time,default is 3600s.
	Forced Resync Delay(sec)	If it's time to resync, but IP601 is busy now,in this case ,IP601 will wait for a period time, the longest is 14400s, when the time is over, IP601 will forced to resync.
	Option 66	If or not enable option 66.
	Config File Name	Fill in the configuration file name. Configuration File Name is used for IN-house provision mode only. When use TFTP with option 66 to realize provisioning, user must input right configuration file name in IP601's webpage.
	Profile Rule	Fill in the URL of your configuration file.
	Upgrade Enable	If or not enable Upgrade.
	Upgrade Error Retry Delay(sec)	Set the time to retry upgrade, effective when the last upgrade was failure.
	Upgrade Rule	Fill in the URL of upgrade file.

6.5.5 SNMP

Webpage	Field Name	Description
	SNMP Service	If or not enable SNMP.
	Trap Server Address	Fill in the IP address or domain of trap server.
	Read Community Name	A string, it is used an express password between management process and the agent process.
	Write Community Name	A string, it is used an express password between management process and the agent process.
	Trap Community	The community code in Trap.
	Trap period interval(sec)	The interval period between traps.

6.5.6 TR069

Webpage	Field Name	Description
	TR069 Enable	If or not enable TR069.
	CWMP Enable	If or not enable CWMP.
	ACS URL	The URL of TR069 server.
	User Name	The IP601's user name for connecting to TR069 server.
	Password	The IP601's password for connecting to TR069 server.
	Periodic Inform Enable	If or not enable periodic inform.
	Periodic Inform Interval	The interval to send information to TR069 server.
	User Name	The TR069 server's user name for connecting to IP601.
	Password	The TR069 server's password for connecting to IP601.
	SSL Key	Fill in SSL key.

7 Use Basic Phone function

7.1 Using the Handset/Speakerphone

7.1.1 Using the Handset

To place and answer calls using the handset, simply lift the handset.

6.1.2 Using the Speakerphone

To place and answer calls using the speaker, press the **speaker** button.

7.2 Make Telephone Call

7.2.1 Place a call

You can place a call by:

- 1) Lifting the handset and dialing phone number, followed by the # or wait 5 seconds, IP601 will dial out the phone number;
- 2) Press the speaker button and dial phone number, followed by the # or wait 5 seconds, IP601 will dial out the phone number.

7.2.2 Use Speed Dial

Configure one Multi-Function Key to speed dial according to the prompt, then press the Multi-Function Key corresponding to speed dial to make call immediately.

7.2.3 Use Dial plan

- 1) Open **Phone/Dial Plan** webpage;
- 2) Add one dial plan, user can refer to **6.4.3 Dial Rule**;

Use dial plan to make a call:

Dial the phone according to one dial plan.

7.2.4 Use Hotline

Add the hotline from **SIP Account/Line1** webpage, **Supplementary Service Subscription** column,below is one example:

Open **SIP Account/Account 1** webpage, **Supplementary Service Subscription** column;

Fill in the hotline number, user can also add the delayed time.

Example 1: HotLine: 515 | set the hotline number is 515.

Example 2: HotLine: 516T3 | set the hotline number is 516, and the delayed time is 3 seconds.

If user has set properly, every time he picks up the handset or press speaker button, IP601 will dial the number at once; if user has set delay time, after he picked up the phone for delay time, IP601 will dial the number.

7.3 Answer a Telephone Call

When a call is incoming, the phone will ring, and the LED at the back of IP601 will blinking . You can receive the call by:

- ① Press the speakerphone;
- ② Lift the handset;
- ③ Auto-answer: if auto-answer is enabled, IP601 will answer the phone automatically when there is a call incoming.

User can enable auto-answer in **Phone/Preference** webpage, **Miscellaneous** column.

Miscellaneous

Auto Answer:	Disable ▼	Auto Answer by CallINFO:	Disable ▼
Dial Time Out:	5	Call Immediately Key:	# ▼

7.4 Adjust Call Volume

User can adjust Call Volume by using Multi-Functional Key, the steps are as following:

- ① Choose two multi-functional key(assuming the two multi-functional keys are EXP Key4 and EXP Key5), and the following picture is the configuration webpage:

Key	Type	Mode	Line	Expansion	Pickup Code
Exp Key1	Speed Dial ▼		Line1 ▼	515	
Exp Key2	Speed Dial ▼		Line1 ▼	511	
Exp Key3	Speed Dial ▼		Line1 ▼	601	
Exp Key4	Shortcut Keys ▼	Volume+ ▼			
Exp Key5	Shortcut Keys ▼	Volume- ▼			

- ② Press Save button to save changes and reboot IP601 to make the changes effective.
- ③ Press Exp Key4 button to turn up volume and press Exp Key5 to turn down volume.

7.5 Black List

If user add a black list, IP601 will forbid the phone number incoming. User can add a black list from the webpage.

- ① Login on the webpage, open **Phone/Phonebook** webpage, **Blacklist** column;
- ② Refer to the **6.4.4 Phonebook** to add blacklist.

7.6 Place a Call on Hold

When IP601 is during one active call:

- ① Press the hold button to put the active call on hold, then you will hear a dial tone, the remote party will hear the holding music.
- ② User can input the phone number to make another call;
- ③ Press the hold button again to release the previously Hold state and resume the bi-directional media.

7.7 Three Way Conference Calls

- ① To initiate a conference call, Press HOLD button during an active call and the first call is placed on hold, and you will hear a dial tone.
- ② Dial the second person's telephone number;
- ③ After the second person answers the call, press CONF button to start the conference call; all three parties will participate in a conference call.

Note: If you hang up firstly, the other two parties will be disconnected; if one party hangs up firstly, you can go on talking with the other party.

7.8 Attended Transfer

You call the person to whom you are transferring the call and speaker to them before transferring the call:

- ① To initiate a transfer, press HOLD button during an active call. This places the first call on hold and you will hear a dial tone;
- ② Dial the second person's telephone number;
- ③ When the second person answers, you can have a private conversation with the second person without the first person hearing it;
- ④ To connect the call to the second person, press XFER button to complete the transfer. You will be disconnected from the call;
- ⑤ If you hang up during the call with the second person before pressing XFER button, the transfer is not completed, this only ends the call with the second person, and you can press HOLD button to continue the first call.

7.9 Unattended Transfer

You can transfer an active call to a third party without announcement.

- ① To initiate an unattended(blind) transfer, press the XFER button during an active call. The first call is placed on hold and you will hear a dial tone.
- ② Now dial the second person's telephone number with immediately ending char '#', IP601 will transfer phone automatically and you will be disconnected from the call.

7.10 Forwarding Calls

You can forward all calls, forward the calls when the phone is busy or forward calls when there is no answer. You can set call forwarding options from your PC using the IP phone Web Interface. Details please refer to **6.4.1 Preference**.

7.11 Call Waiting

Before use call waiting, you should enable it firstly, and the default is 'enable'.

During an active call:

- ① If call waiting is enabled, call waiting alerts you with ringing if there is another call is incoming , press HOLD button to answer the second call with the first call holding, and press HOLD button to change again.
- ② If call waiting is off, new calls would be rejected and the new caller will hear busy tone when you are on another call.

Enable Call Waiting:

You can turn call waiting on or off by using your PC to open **SIP Account/Line1** webpage, **Supplementary Service Subscription** column.

7.12 End a Call

To end a call, you can use the following ways:

- ① To end a handset call, hang up the handset.
- ② To end a speakerphone call, press the speaker button.

7.13 View and Return Missed Calls

To view a list of all missed calls, you can login IP601's webpage and search in **Phone/Call Log** webpage, **Missed Calls** column.

To return missed calls, please check the missed calls in the webpage and dial the numbers.

7.14 DND(Do Not Disturb)

Use the DND feature to prevent incoming calls from incoming calls from ringing your phone.

To enable Do Not Disturb, push the DND button to the side neat the DND dot, below is one picture:



8 Using Advanced Phone Functions

8.1 Speed dials

Following are the steps to create speed dials in webpage:

- ① Access to web, and then open **Phone/Multi-Functional Key** webpage;
- ② Then configures one Exp Key to speed dial, and then choose the line and fill in the phone number. The following picture is a setting example:

Key	Type	Mode	Line	Expansion	Pickup Code
Exp Key1	Speed Dial		Line1	515	
Exp Key2	Speed Dial		Line1	511	

- ③ Press Save button to save changes and then press Reboot button to make changes effective.

Use Speed Dials:

Press the configured Exp Key1 to call 515 or press Exp Key 2 to call 511 immediately.

8.2 Shortcut Keys

The steps below described how to configure the shortcut key from webpage:

Create Shortcut Keys:

- ① Access to web, and then open **Phone/Multi-Functional Key** webpage;
- ② Then configures the Exp Keys to shortcut keys, and set as you need. The following picture is a setting example:

Exp Key4	Shortcut Keys	Volume+			
Exp Key5	Shortcut Keys	Volume-			
Exp Key6	Shortcut Keys				
Exp Key7	Shortcut Keys	Volume+ Volume-			

Note: IP601 can only support **volume+** and **volume-** function by using shortcut keys.

8.3 Change Your Ring Tone

User can change ring tone in Phone/Phonebook webpage, set different ring tone to fit with the different numbers. Details please refer to **6.4.4 Phonebook**.

8.4 Set your Date and Time

User can set date and time for IP601, details please refer to **6.5.1 Management**.

8.5 Reboot Your Phone

This setting is to configure and troubleshoot the network. You should not change these settings unless directed to by your Administrator as this can negatively affect your phone's function.

There are two methods to reboot your IP phone, one is to use IVR and set as the phone voice notes you. Another way is to set in the webpage. The details about IVR, you may refer to **4 IVR**.

8.6 Factory Reset

There are two ways to make factory default: use IVR and use website.

Use IVR: press '****' to enter IVR and press '6', you will be required to input the password of IP601 , input 'admin' and end with char '#', then IP601 will be factory default.

Use webpage: Login the webpage, and set in **Administration/Management** webpage, **Factory Default** column, press Save button and reboot IP601, then the phone's settings will be default value.

9 Trouble Shooting

This section provides solutions to problems that may occur during the installation and operation of the IP phone. Read the following descriptions if you are having problems.

9.1 No Operation after Power On

Solution:

Check if the power adapter is properly connected.

If applicable, check if the PoE(Power over Ethernet) switch behind the IP phone is set correctly.

9.2 Long Time Stop Blinking the LED

Solution:

check if the Ethernet cable is properly connected.

Check if the DHCP server is working normally.

Check if the connection between the DHCP Server and IP601 is properly connected.

9.3 No Dial Tone

Solution:

Check if the handset cord is properly connected.

9.4 Can not Make a Call

Solution:

Check the status of your SIP registration status or contact your administrator,supplier,or ITSP for more information or assistance.

9.5 Can not Receive Any Phone Call

Solution:

Check the status of your SIP registration status, or contact your administrator, supplier, or ITSP for more information or assistance.

9.6 No voice during an Active Call

Solution:

Check if the servers support the current audio codec type, or contact your administrator,supplier,or

ITSP for more information or assistance.

Audio Configuration			
Codec Setup			
Audio Codec Type 1:	G.711U	Audio Codec Type 2:	G.711A
Audio Codec Type 3:	G.729	Audio Codec Type 4:	G.722
Audio Codec Type 5:	G.723	G.723 Coding Speed:	5.3k bps
Packet Cycle(ms):	20ms	Silence Supp:	Disable
Echo Cancel:	Enable		

9.7 Can not connect to the configuration Website

Solution:

Check if the Ethernet cable is properly connected.

Check if the URL is right written, the format of URL is http://the Internet port IP address.

Check if your firewall/NAT settings are correct.

Check if the version of IE is IE8, or use the browser such as Firefox or Mozilla, or contact your administrator, supplier, or ITSP for more information or assistance.

10 Contact Ways

If you have any questions, please contact us. The following chart describes the ways briefly.

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